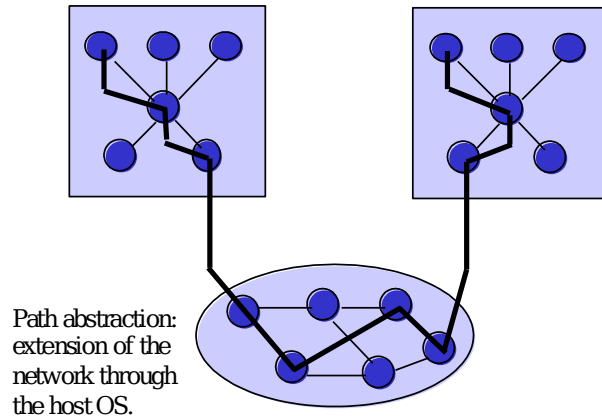


Scout: A Communication Operating System



NEW IDEAS

Path-Based Resource Allocation
 Extend Network QoS into Host
 Schedule Memory, Not Just Processor
 Support Fine-Grain Scheduling
 Minimize OS-induced Jitter

CAOS: Compiler-Assisted OS Design
 OS-Specific compiler Optimizations
 Small Compilers (Tools)
 Code Specialization

IMPACT

Demonstrate how to build specialized software for network appliances

Demonstrate how to extend network QoS through host operating system

Design compiler-based tools that can be used to build fast, portable, correct, and inexpensive system software

SCHEDULE

